

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,847,439 B2  
DATED : January 25, 2005  
INVENTOR(S) : Manning

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 8,

Line 50, replace "time to" with -- time t0 --

Column 12,

Lines 3-4, replace "way lengths" with -- wavelengths --

This certificate supersedes Certificate of Correction issued April 12, 2005.

Signed and Sealed this

Fifth Day of July, 2005

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looped initial "J" and a cursive "Dudas".

JON W. DUDAS  
*Director of the United States Patent and Trademark Office*